MiShine Solutions Pvt Ltd

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GST NUMBER- 09AAKCM7437N2ZN
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# Aakhyaana 2.0

## 1. General Information

Product Name: Aakhyaana 2.0
Manufacturer: Falco Robotics Pvt Ltd
Model Number: 1520212024013

## 2. Technical Specifications of Aakhyaana 2.0

Nature of Aircraft: Quadcopter
Dimensions: L – 1562 mm,
W – 1255 mm,
H – 477 mm
Weight: 17 kg
Battery Life: >150 cycles
Charging Time: 50 min to 90 min
Max Flight Time: 20 – 30 min
Max Speed: 36 Km/h
Range: Up to 15 km*
Working Temperature: -10°C to 55°C

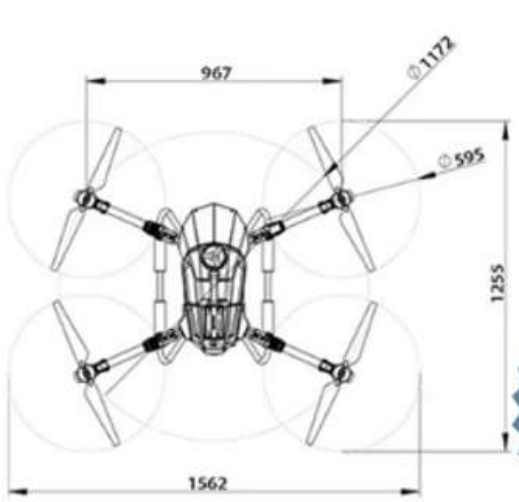
## 3. Camera Specifications

Resolution: 1080 P
Frame Rate: 25 fps
Field of View: 2 axis

## 4. Features

Payload Up to 5 kg
Dropping Capabilities
RTL
Surveillance

## 5. Additional Information



## Pre Flight-Checklist

- Research flight zone digitalsky.gov.in
- Know categories of drones by weight
- Keep license if required
- Check weather condition
- RC should be full charge
- Full Charge drone batteries
- Propellors mount correctly
- Inspect all components for visible damage
- Functioning drone
- Check your airspace
- Check authorization
- Check GPS Signals
- Flying conditions
- Aircraft visual inspection
- Calibration
- Clear obstructions

| Flight Mode Representation | Light State Indication | Priority Level |
|---|---|---|
| Attitude (Stability Enhancement, Altitude Setting) | Green Single Flash | Low |
| GPS Mode (Angle, Speed) | Green Double Flash | Low |
| Function Mode (Circle, Cruise, Agriculture, etc.) | Green Three Flashes | Low |
| Intelligent Direction On | Green Four Flashes | Low |
| Self Driving Mode (Ground Station Control, Return) | Green Flash Nobs | Middle |
| **GPS Representation** | **Light State Indication** | **Priority Level** |
| GPS not connected / GPS not receiving satellite | Red Three Flashes | Low |
| Poor GPS signal | Red Double Flash | Low |
| General GPS signal | Red Single Flash | Low |
| The GPS signal is very good | Red No Flash | Low |
| RTK Positioning | Yellow Single Flash | |
| **Low Voltage Alarm Indication** | **Light State Indication** | **Priority Level** |
| First level alarm | Yellow Three Flashes | Low |
| Secondary alarm | Yellow Flash Nobs | Height |
| **Two Side Magnetic Calibration Indication** | **Light State Indication** | **Priority Level** |
| Level Calibration | The yellow light is always on | Middle |
| Vertical Calibration | The Green light is always on | Middle |
| Calibration failed | The red light is always on | Middle |
| Calibration successful | Red Green Yellow Alternate Flashing | Middle |
| **Accelerometer Calibration Representation** | **Light State Indication** | **Priority Level** |
| Calibrating | Red Green Yellow Alternate Flashing | Middle |
| Calibration Complete | The green light is always on | Middle |
| **Abnormal State Representation** | **Light State Indication** | **Priority Level** |
| Remote control out of control | Red Flash Nobs | Height |
| Magnetic compass interference / abnormality | Yellow Green Alternate Flashing | Height |
| GPS satellite lost / abnormal | Red Green Alternate Flashing | Height |
| IMU vibration is too large / abnormal | Red Yellow Alternate Flashing | Height |
| **Other State Representation** | **Light State Indication** | **Priority Level** |
| Power on initialization | Red Green Yellow Alternate Flashing | Height |
| Unlock representation | Red Green Yellow Alternate Flashing | Height |
| Unlock failed | The red light is always on | Height |